

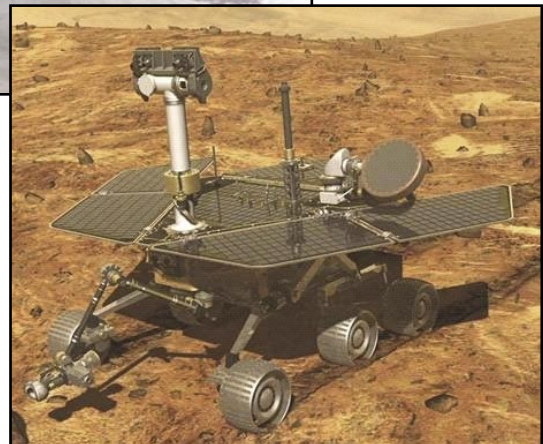


Air Force Research Laboratory|AFRL

Science and Technology for Tomorrow's Air and Space Force

Success Story

AFRL BATTERY RESEARCH PROGRAM BENEFITS NAVY SEAL PROGRAM



Since its initiation in 1998, the AFRL Lithium-Ion Battery Technology program has led to power solutions for systems such as the B-2 Bomber, the Mars rover, and new commercial products. Recently, the Navy adopted the technology to power its advanced combat support equipment.



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Accomplishment

The AFRL program's most recent propagation was the US Navy's selection of Lithion, Inc./Yardney Technical Products for its Phase II Advanced Sea, Air, Land (SEAL) Delivery System. The Advanced SEAL Delivery System (ASDS) is a submersible combat vehicle that the Navy SEAL team will use to transport team members and combat equipment to and from shore, enabling a variety of special operations missions. Lithion, Inc., explicitly credits AFRL's lithium-ion research for its opportunity to experience success in this technology area, and the company also acknowledges the Air Force as the most important partner in advancing lithium-ion technology as the power source for many new applications.

Background

AFRL and its industry partners have been the focal point for this technology. Scientists developed lithium-ion technologies as a result of AFRL programs. Consequently, this technology has satisfied the power needs for the National Aeronautics and Space Administration's Mars exploration rovers, the B-2 Bomber, several satellite applications, and the Navy ASDS application. Further opportunities exist to expand lithium-ion technology into areas related to unmanned air vehicles, battlefield air operations, directed energy weapons, and smarter electronic designs.

Propulsion
Support to the Warfighter

Additional Information

To receive more information about this or other activities in the Air Force Research Laboratory, contact TECH CONNECT, AFRL/XPTC, (800) 203-6451 and you will be directed to the appropriate laboratory expert. (05-PR-05)